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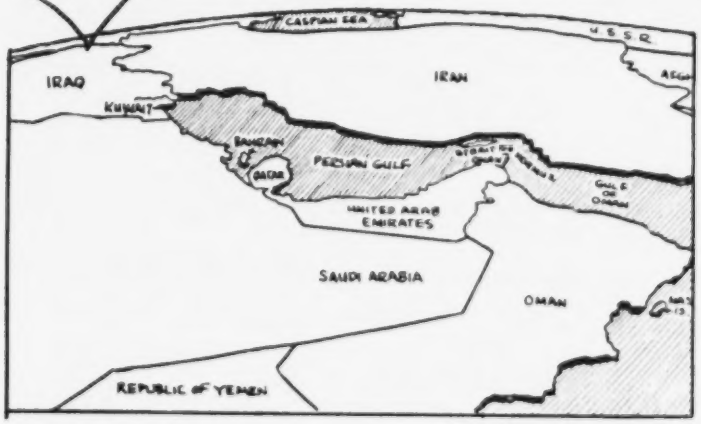
AIA-DS-1-90

IDENTIFYING THE IRAQI THREAT and HOW THEY FIGHT



SEPTEMBER 1990
(UPDATE)

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INTRODUCTION

THIS IRAQI THREAT GUIDE HAS BEEN PREPARED FOR THE SOLDIER AT COMPANY LEVEL AND BELOW. BASIC DATA ON COMMONLY USED WEAPONS AND WEAPONS SYSTEMS, AND ON TACTICAL UNITS ARE SHOWN. OTHER REFERENCES MUST BE USED IF MORE COMPLETE INFORMATION IS NEEDED.

THIS GUIDE RESULTED FROM A QUICK REACTION EFFORT BY THE US ARMY INTELLIGENCE AGENCY. IT HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND WITH THE RESPONSIVE SUPPORT OF THE DEFENSE INTELLIGENCE AGENCY.

COMMENTS AND RECOMMENDED IMPROVEMENTS ARE ENCOURAGED AND MAY BE SENT TO THE FOLLOWING ADDRESS:

DEPARTMENT OF THE ARMY
OFFICE OF THE DEPUTY CHIEF OF STAFF
FOR INTELLIGENCE
US ARMY INTELLIGENCE AGENCY
WASHINGTON, DC 20310-1015
AV 289-8600/COMM (703) 756-8600

THIS PAMPHLET WAS PRODUCED FROM UNCLASSIFIED SOURCES

THE US ARMY WISHES TO THANK JANES INFORMATION GROUP FOR GRANTING RELEASE FOR MATERIAL CHARACTERISTICS, SPECIFICATIONS, AND ILLUSTRATIONS USED IN THIS DOCUMENT. THE PREPONDERANCE OF DATA USED IS TAKEN FROM THE FOLLOWING JANE'S VOLUMES: ALL THE WORLD'S AIRCRAFT (1980-1990), ARMOUR AND ARTILLERY (1989-90), INFANTRY WEAPONS (1990-91), ARMOURED FIGHTING VEHICLE SYSTEMS (1989-90), AND LAND-BASED AIR DEFENCE (1990-91).

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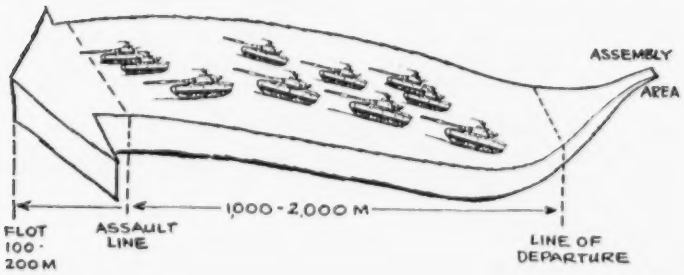
HOW THEY FIGHT

THE IRAQI ARMY WAS IN COMBAT AGAINST THE IRANIANS FOR EIGHT YEARS AND DEVELOPED INTO A BATTLE-HARDENED FORCE CAPABLE OF CONDUCTING EFFECTIVE OFFENSIVE AND DEFENSIVE OPERATIONS. THE IRAQI ARMY POLISHED ITS OFFENSIVE CAPABILITY, ACHIEVING GOOD RESULTS DURING FINAL OPERATIONS AGAINST THE IRANIANS.

THE MANEUVER BRIGADES, (ARMOR, MECHANIZED INFANTRY, AND INFANTRY), ARE THE LOWEST LEVEL UNITS CAPABLE OF INDEPENDENT OPERATIONS. A COMBAT BRIGADE, COUPLED WITH ADDITIONAL ARTILLERY, ROCKET, AVIATION, AND AIR DEFENSE SUPPORT FROM DIVISION AND HIGHER COMMANDS, MAKES A POWERFUL BATTLEFIELD FORCE.

AN ELITE FORCE, THE REPUBLICAN GUARDS FORCES COMMAND WAS INITIALLY ORGANIZED TO PROTECT THE IRAQI GOVERNMENT. LATER, THIS FORCE WAS EMPLOYED IN HIGHLY SUCCESSFUL OFFENSIVE OPERATIONS AGAINST THE IRANIANS. RECENTLY, BRIGADES OF THE REPUBLICAN GUARDS CONDUCTED THE BLITZ TYPE ATTACK INTO KUWAIT.

THE FOLLOWING PAGES SHOW THE ORGANIZATION AND EQUIPMENT OF THE IRAQI ARMY.



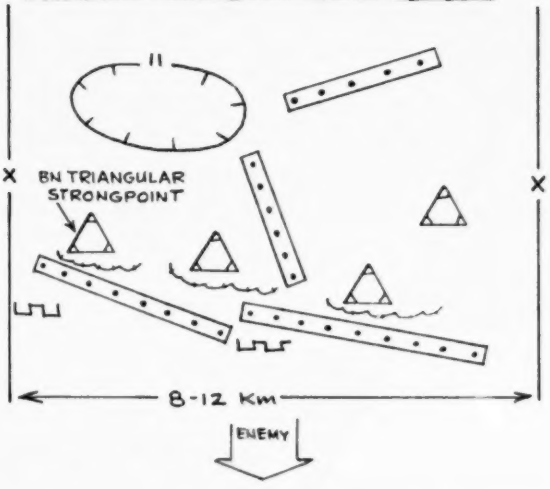
OFFENSIVE OPERATIONS

- COMBINED ARMS FORMATIONS COMMON
- INFANTRY AND ENGINEERS LEAD THROUGH MINEFIELDS
- CLEAR AND OPEN TERRAIN...TANKS LEAD
- BROKEN TERRAIN OR MINES AND OBSTACLES...INFANTRY LEADS
- ARTILLERY PREP...
    - ** 45-60 MINUTES BEFORE ASSAULT
    - ** THEN SHIFTS TO DEEP TARGETS
    - ** CHEMICAL WEAPONS OFTEN MIXED WITH PREP
- ENEMY REINFORCEMENTS ATTACKED BY AIR AND ARTILLERY
- ATTACKS ATTEMPT TO BYPASS STRONG POINTS
- ENVELOPMENT PREFERRED
- VERTICAL ENVELOPMENT MAY SUPPORT ATTACK
- NAVAL INFANTRY MAY PROVIDE AMPHIBIOUS SUPPORT
- ATTACK HELICOPTER TECHNIQUES..THREE AIRCRAFT TEAM
    - ** BATTLE CAPTAIN IN HIND DIRECTS:
        - *** GAZELLE ARMED WITH HOT MISSLES
        - *** BO-105 ARMED WITH ROCKETS
- HINDS DEPLOYED IN GROUPS OF 4 OR MORE TO:
    - ** LOFT ROCKETS FROM LOW ALTITUDE
    - ** POP-UP AND ENGAGE FROM MULTIPLE DIRECTIONS

DEFENSIVE OPERATIONS

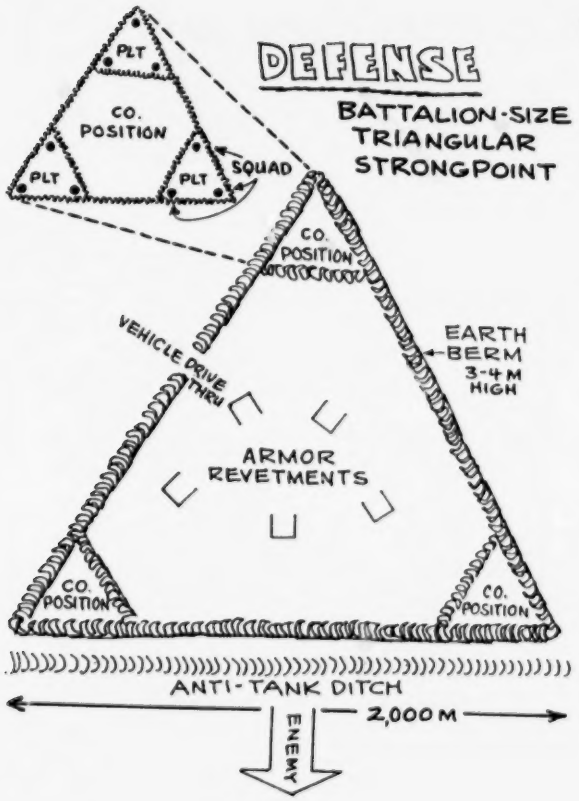
- SECURITY ZONE FORWARD OF FLOT
  - ** RECON UNITS REINFORCED BY INF AND ARTY
- STRONG FORWARD DEFENSIVE POSITIONS
- DEFENSE IN DEPTH..OBSTACLES IN DEPTH
- MAXIMUM USE OF NATURAL AND MANMADE OBSTACLES
- MINEFIELDS COVER FORWARD POSITIONS
  - ** UP TO 350 METERS DEEP
  - ** MIX NORMALLY 3 AP AND 1 AT PER CLUSTER
  - ** MIXED WITH BARBED WIRE
- MAXIMUM USE OF TANK DITCHES AND BERMS
- TANK-HEAVY RESERVE USED FOR COUNTERATTACK
- ATGM DEPLOYED FORWARD
- TANKS ARE FORWARD WHEN NEEDED IN ANTITANK ROLE
- ANTI-TANK TACTICS
  - ** CHANNEL ENEMY TANKS TO OPEN AREAS
  - ** EMPLOY ANTI-TANK WEAPONS IN DEPTH
  - ** COMMANDOS IN REAR AREA AMBUSH TANKS

POSITION DEFENSE

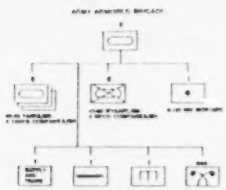


DEFENSE

BATTALION-SIZE TRIANGULAR STRONGPOINT

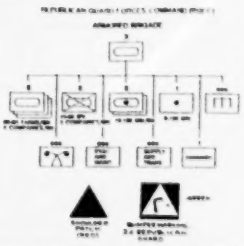


UNIT STRUCTURES



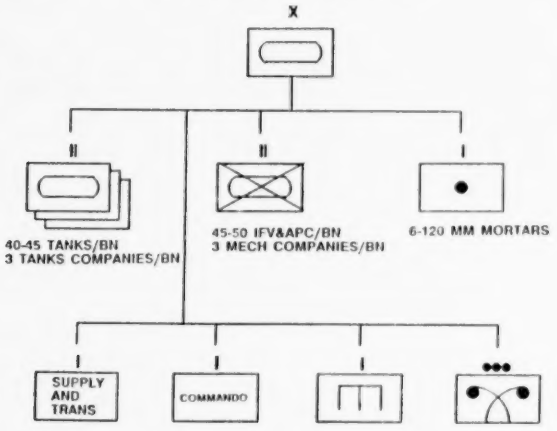
THE MANEUVER BRIGADE ORGANIZATIONS ON THE FOLLOWING PAGES SHOW THE TRADITIONAL ARMY BRIGADES, AND THE BRIGADES OF THE REPUBLICAN GUARD FORCES. ALTHOUGH MOST IRAQI MANEUVER BRIGADES ARE WELL BALANCED, THE REPUBLICAN GUARDS BRIGADES ARE LARGER AND EQUIPPED WITH BETTER AND MORE POWERFUL WEAPONS.

COMPLETE INFORMATION ON THESE UNITS WAS NOT AVAILABLE WHEN THIS BOOKLET WAS PUBLISHED. THEREFORE, SPACE HAS BEEN LEFT ON EACH PAGE TO RECORD CHANGES AND ADDITIONS TO THE ORGANIZATIONS.

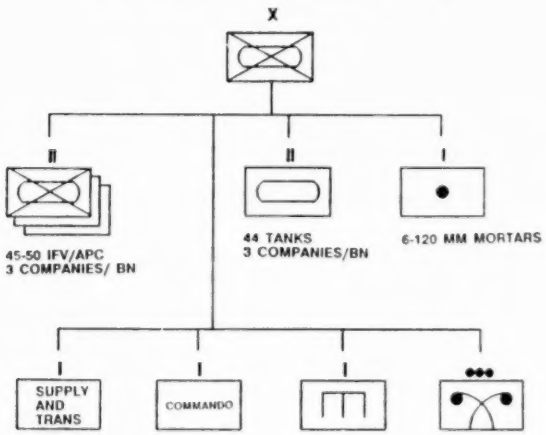


PATCHES AND UNIT MARKINGS MAY BE REMOVED, ALTERED, OR CHANGED AS PART OF DECEPTION OPERATIONS.

ARMY ARMORED BRIGADE

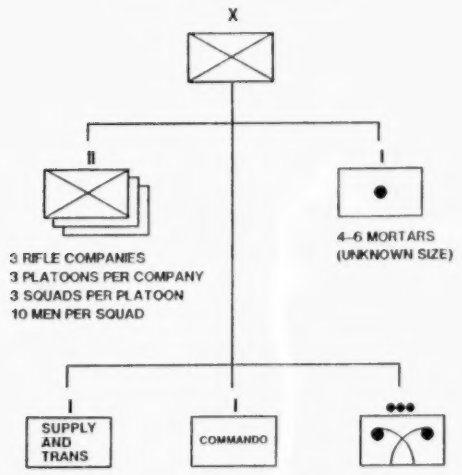


ARMY MECHANIZED INFANTRY BRIGADE



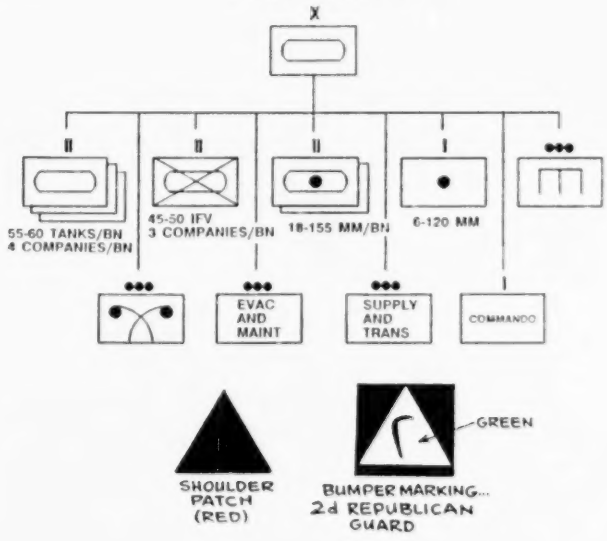
UNIT STRUCTURES

ARMY INFANTRY BRIGADE



REPUBLICAN GUARD FORCES COMMAND (RGFC)

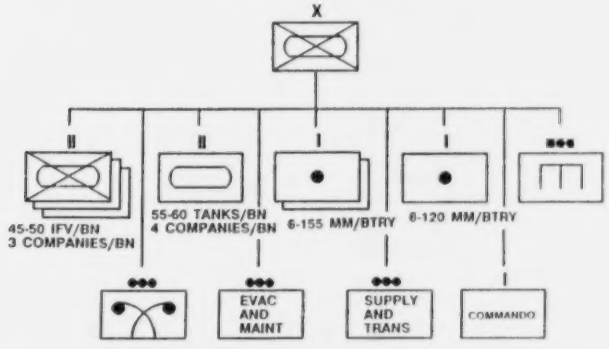
ARMORED BRIGADE



UNIT STRUCTURES

REPUBLICAN GUARD FORCES COMMAND (RGFC)

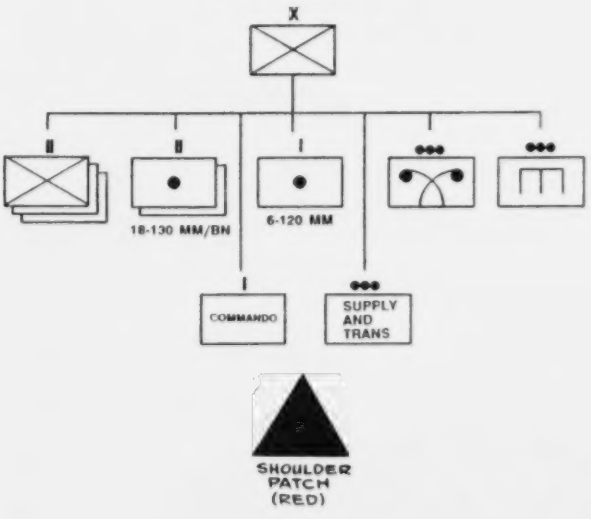
MECHANIZED BRIGADE



SHOULDER
PATCH
(RED)

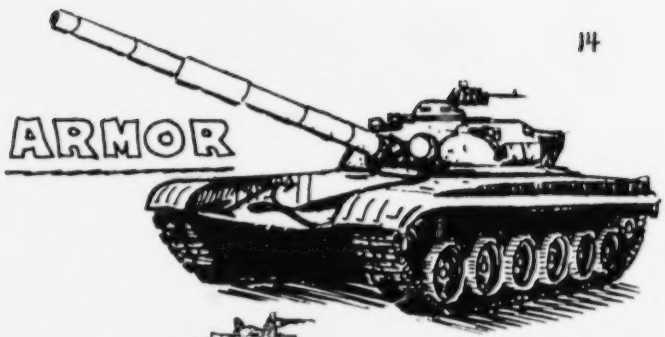
REPUBLICAN GUARD FORCES COMMAND (RGFC)

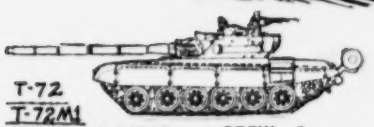
INFANTRY BRIGADE



UNIT STRUCTURES

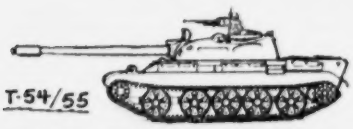
ARMOR





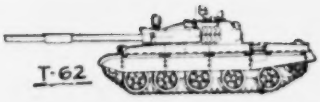
T-72
T-72M1

SPEED: 80 KM/H CREW: 3
WEAPONRY: 125 MM GUN (RANGE 2000 M)/7.62 MM MG (1000 M)/
12.7 MM AA MG (1500 M GND/1000 M AIR)
AMMO: HEAT-FS/HE-FRAG/APFSDS-T
RATE OF FIRE: 8 RDS/MIN
REMARKS: NBC SYSTEM/INFRARED/LASER RANGEFINDER
T-72M1 HAS PASSIVE NIGHT VISION



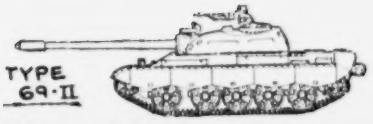
T-54/55

SPEED: 50 KM/H CREW: 4
WEAPONRY: 100 MM GUN (RANGE 1500 M)/7.62 MM MG (1000 M)/
12.7 MM AA MG (1500 M GND/1000 M AIR)
AMMO: HE-FRAG/HEAT/HVAP-T/APC-T/AP-T
RATE OF FIRE: 5-7 RDS/MIN
REMARKS: TELESCOPIC SIGHT/NIGHT VISION



SPEED: 50 KM/H CREW: 4
ARM: 115 MM GUN (RANGE 1600 M)/7.62 MM MG (1(
12.7 MM AA MG (1500 M GND/1000 M AIR)
AMMO: HE FRAG/HEAT-FS/APFSDS
REMARKS: TELESCOPIC SIGHT/NIGHT VISION/NBC S

SPEED: 50 KM/H CREW: 4
WEAPONRY: 105 MM GUN (RANGE 1800 M)/7.62 MM
12.7 MM AA MG (1500 M GND/1000 M AIR)
AMMO: HEAT/HE/APHE/APFSDS
REMARKS: NIGHT VISION/LASER RANGE FINDER
TELESCOPIC SIGHT



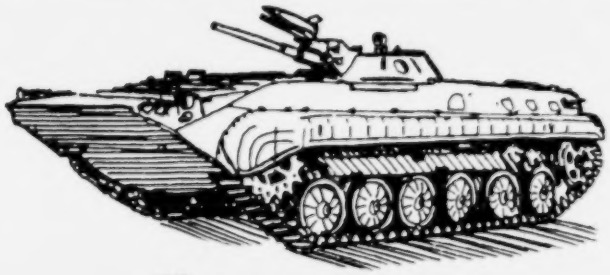
TYPE 69-II

SPEED: 50 KM/H CREW: 4
WEAPONRY: 100 MM GUN (RANGE 1500 M)/7.62 MM MG (1000 M)/
12.7 MM AA MG (1500 M GND/1000 M AIR)
AMMO: HEAT/HE/APHE/HVAPDS
REMARKS: INFRA-RED/LASER RANGE FINDER/NBC SYSTEM

CHIEFTAIN

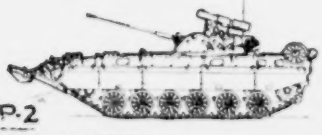
SPEED: 48 KM/HR
RANGE: MOVING TARGET - 2000 M
STATIONARY - 3000 M
WEAPONRY: 120 MM GUN/7.62 MM MG
AMMO: HE, ARMOR, SMOKE & WP
CREW: 4
RATE OF FIRE: 6 - 10 RDS/MIN
REMARKS: SMOKE DISCHARGERS
LASER RANGEFINDER

INF FIGHTING VEHICLES *and* RECON



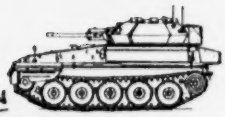
BMP-1

SPEED: 80 KM/H
WEAPONRY: 73 MM GUN/7.62 MM MG/SAGGER ATGM
CREW: 3
REMARKS: CAPABLE OF CARRYING 8 INFANTRY/
REPUBLICAN GUARDS MECH UNITS/



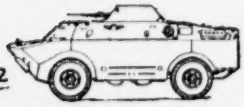
BMP-2

SPEED: 65 KM/H
WEAPONRY: 30MM CANNON/7.62MM MG/SPIGOT ATGM
CREW: 3 PLUS 7 INFANTRY
REMARKS: NBC SYSTEM/INFRARED



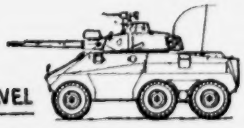
SCORPION

SPEED: 80.5 KM/H
WEAPONRY: 76 MM GUN/7.62 MM MG
CREW: 3
REMARKS: RECON BN



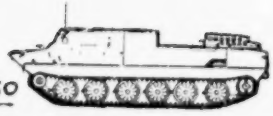
BRDM-2

SPEED: 100 KM/H
WEAPONRY: 7.62 & 14.5 MM MG'S/OR 3 SAGGER ATGM'S/OR SA-9
CREW: 4
REMARKS: RECON SCOUT VEHICLE / NBC SYSTEM



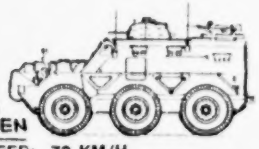
CASCAVEL

SPEED: 100 KM/H
WEAPONRY: 90 MM GUN & 7.62 MG OR 12.7 MM AA MG
CREW: 3
REMARKS: 3 SMOKE DISCHARGERS ON EACH SIDE OF TURRET.



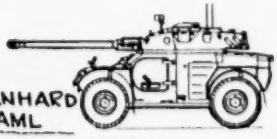
BTR-50

SPEED: 44 KM/H
WEAPONRY: 7.62 MM MG
CREW: 2
REMARKS: CAPABLE OF CARRYING 20 INFANTRY
OT-62B/C MODELS AVAILABLE



ALVIS SARACEN

SPEED: 72 KM/H
WEAPONRY: 2 X 7.62 MM MG
CREW: 2
REMARKS: CAPABLE OF CARRYING 10 INFANTRY



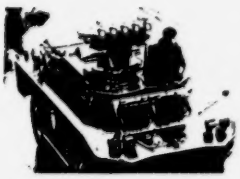
PANHARD AML

SPEED: 90 KM/H
WEAPONRY: 90 MM GUN/7.62 MM MG/HOT ATGM
CREW: 3
REMARKS: RECON VEHICLE

INFANTRY FIGHTING VEHICLES

ANTI-ARMOR

RANGE: 500 M
PENETRATION: 260 MM
RATE OF FIRE: 4 - 6 RDS/MIN
GUIDANCE: OPTICAL



AT-5 SPANDREL

RANGE: 4000 M
PENETRATION: 500 - 600 MM
GUIDANCE: SACLOS WIRE

MILAN

RANGE: 25 - 2000 M
PENETRATION: 1060 MM
GUIDANCE: LOS WIRE

IRAQ REPORTEDLY HAS TOW AND ITOW ANTI-TANK MISSILES.

NOTE!

AT-4 SPIGOT

RANGE: 70 - 2500 M
PENETRATION: 600 MM
GUIDANCE: LOS WIRE

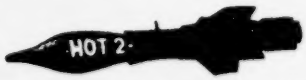
RANGE: 500 - 3000 M
PENETRATION: 400 MM +
GUIDANCE: LOS WIRE

SWATTER

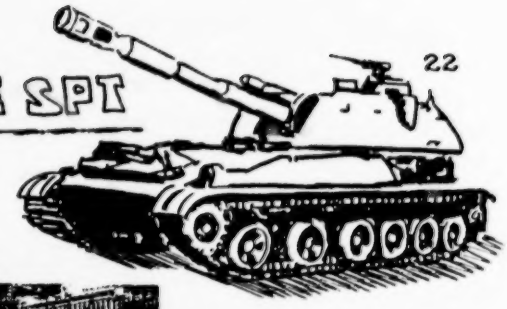
RANGE: 600 - 2500 M
PENETRATION: 400 MM +
GUIDANCE: RADIO LINK

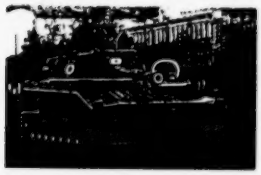
HOT

RANGE: 75 - 4000 M
PENETRATION: 850 MM
GUIDANCE: LOS WIRE
REMARKS: 4 HOT MAY BE INSTALLED ON GAZELLE & 6 HOT INSTALLED ON BO 105 HELICOPTERS



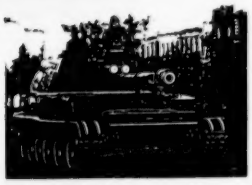
FIRE SPT





2S1 - SP GUN/HOW

CALIBER: 122 MM
RANGE: 15,300 M
AMMO: HE, SMOKE, HEAT-FS
RATE OF FIRE: 5 RDS/MIN

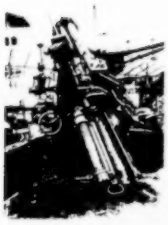


2S3 - SP GUN/HOW

CALIBER: 152 MM
RANGE: 27,000 M
AMMO: HE, CHEMICAL, HEAT-FS, AP-T, SMOKE & ILLUM
RATE OF FIRE: 4 RDS/MIN

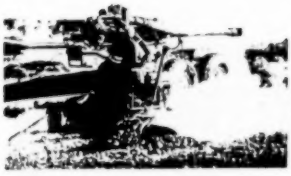
D-20 GUN/HOW

CALIBER: 152 MM
RANGE: 17,000 M
AMMO: HE, CP, AP-T, ILLUM, HEAT, SMOKE, CHEMICAL
RATE OF FIRE: 5 RDS/MIN



GHN-45 GUN/HOW

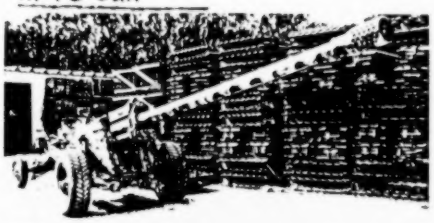
CALIBER: 155 MM
RANGE: 30,300 M
AMMO: HE, ILLUM, SMOKE
RATE OF FIRE: 2 - 7 RDS/MIN



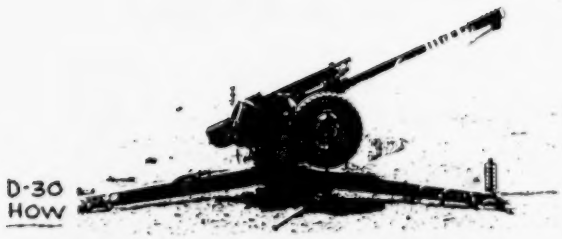
G-5 GUN/HOW

CALIBER: 155 MM
RANGE: 39,000 M
AMMO: HE, SMOKE, ILLUM, WP
RATE OF FIRE: 3 RDS/MIN

M-46 GUN

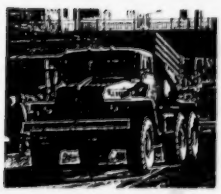


CALIBER: 130 MM
RANGE: 27,500 M
AMMO: HE, AP-T, CHEMICAL, ILLUM, SMOKE
RATE OF FIRE: 1 - 2 RDS/MIN



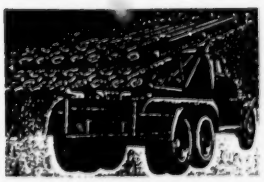
D-30
How

CALIBER: 122 MM
RANGE: 15,300 M
AMMO: HE, HEAR-FS, CHEMICAL, ILLUM, SMOKE
RATE OF FIRE: 1 - 2 RDS/MIN



BM-21 MRL

CALIBER: 122 MM (40 TUBES)
RANGE: 20,500 M
AMMO: HE, SMOKE, CHEMICAL , WP
RATE OF FIRE: 40 RDS EVERY 10 MIN.



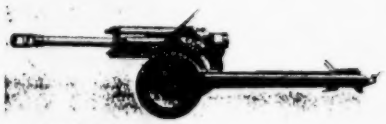
BM-13/16 MRL

CALIBER: 132 MM
RANGE: 8000 M
AMMO: HE
RATE OF FIRE: 16 RDS EVERY 15 MIN

M-1937 (ML-20) GUN/HOW

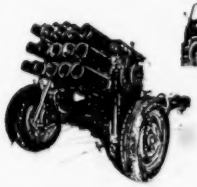
CALIBER: 152 MM
RANGE: 17,000 M
AMMO: HE, AP-T, HEAT, ILLUM, SMOKE
RATE OF FIRE: 4 RDS/MIN

M-1943 D-1 HOW

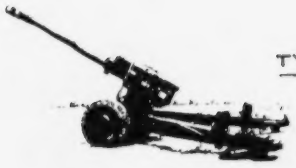


CALIBER: 152 MM
RANGE: 12,400 M
AMMO: HE, CP, HEAT, ILLUM, CHEMICAL
RATE OF FIRE: 1 RD/MIN

TYPE 63 MRL



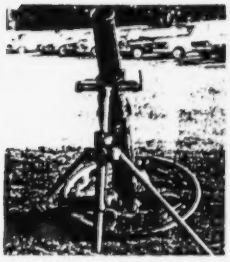
CALIBER: 107 MM
RANGE: 10,100 M
AMMO: HE
RATE OF FIRE: 12 RDS IN 15 SEC
NOTE: TOWED & TRUCK-MOUNTED VERSIONS SHOWN



TYPE 66 GUN/HOW

CALIBER: 152 MM
RANGE: 17,200 M
AMMO: HE, SMOKE
RATE OF FIRE: 3 RDS/MIN

MORTAR

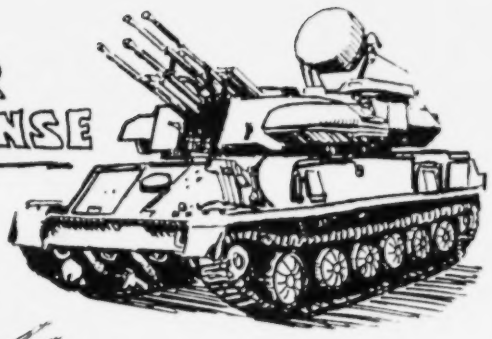


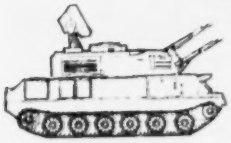
CALIBER: 120 MM
RANGE: 5,700 M
AMMO: HE, SMOKE, ILLUM
RATE OF FIRE: 15 RDS/MIN

MORTAR

CALIBER: 82 MM
RANGE: 3100 M
AMMO: HE, SMOKE
RATE OF FIRE: 15 RDS/MIN

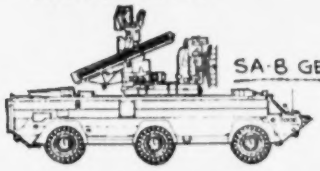
AIR DEFENSE





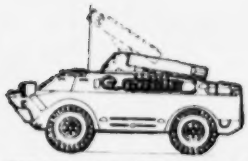
ZSU-23/4

TARGET: HELICOPTERS & LOW FLYING AIRCRAFT
CALIBER: 23 MM GUNS
RANGE: 2500M
RATE OF FIRE: 850-1000 RDS/MIN PER GUN
GUIDANCE: RADAR



SA-8 GECKO

TARGET: LOW TO MEDIUM ALTITUDE HI-PERFORMANCE AIRCRAFT AND HELICOPTERS
RANGE: 15,000 M
ALTITUDE: 10 - 12,200 M
GUIDANCE: RADAR



SA-9 GASKIN

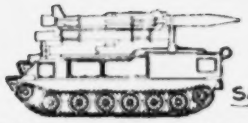
TARGET: HELICOPTERS & SLOW FLYING AIRCRAFT
RANGE: .8 - 5 KM
ALTITUDE: 10 - 4500 M
GUIDANCE: INFRARED HOMING

ROLAND I/II

TARGET: HIGH PERFORMANCE AIRCRAFT
RANGE: 700 - 6300 M
ALTITUDE: 10 - 5500 M
GUIDANCE: OPTICAL/RADAR

ZSU-57/2

TARGET: HELICOPTERS & LOW FLYING AIRCRAFT
CALIBER: 57 MM GUNS
RANGE: 4000 M
RATE OF FIRE: 105 - 120 RDS/MIN
GUIDANCE: OPTICAL



SA-6 GAINFUL

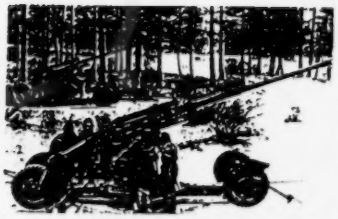
TARGET: LOW TO MEDIUM ALTITUDE HIGH PEE
AIRCRAFT
RANGE: 4 - 24 KM
ALTITUDE: 15 KM
GUIDANCE: SEMI ACTIVE HOMING

M-53/59 & M53/7

TARGET: AERIAL & GROUND
CALIBER: 30 MM GUN
RANGE: LIGHT ARMORED VEHICLI
AERIAL
RATE OF FIRE: 420 - 450 RDS/MIN
GUIDANCE: TRACER OBSERVATIO
TELESCOPE

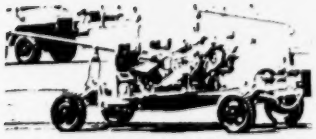
100 mm KS-19

TARGET: AERIAL & GROUND
RANGE: 12,600 M
RATE OF FIRE: 15 RDS/MIN
PENETRATION: 185 MM AT 500 M/170 MM AT 1000
GUIDANCE: RADAR/DIRECT FIRE OPTICAL



85mm M-1939
KS-12

TARGET: AERIAL & GROUND
RANGE: 10,000 M
RATE OF FIRE: 15-20 RD/MIN
GUIDANCE: RADAR/OPTICAL



57mm S-60

TARGET: HELICOPTERS & SLOW FLYING AIRCRAFT
RANGE: 4,000 M
RATE OF FIRE: 105 - 120 RDS/MIN
GUIDANCE: OPTICAL & RADAR

37mm M-1939

TARGET: HELICOPTERS & SLOW FLYING AIRCRAFT
RANGE: 4000 M
RATE OF FIRE: 160 - 180 RDS/MIN
GUIDANCE: OPTICAL

I HAWK

TARGET: HIGH PERFORMANCE AIRCRAFT
RANGE: LOW ALTITUDE: 3500 - 16,000 M
HIGH ALTITUDE: 2000 - 32,000 M
GUIDANCE: RADAR

SA-7 GRAIL

TARGET: HELICOPTERS & SLOW FLYING AIRCRAFT
RANGE: .7 - 5 KM
ALTITUDE: 10 - 4500 M
GUIDANCE: INFRARED HOMING

AIR DEFENSE

AIRCRAFT

MIG-23 FLOGGER

MISSION: FIGHTER/GROUND ATTACK
SPEED: APPROX 725 MPH AT SEA LEVEL
WEAPONRY: 23 MM GUN, 2 APEX MISSILES, 2 OR 4 APHID OR 2 ATOLL MISSILES, 57 MM AND 80 MM ROCKETS, 1,000 LB BOMBS, SURFACE-TO-AIR MISSILES

MIRAGE F-1

MISSION: MULTI-ROLE-AIR SUPERIORITY/GROUND ATTACK
SPEED: APPROX 625 MPH AT SEA LEVEL
WEAPONRY: TWO 30 MM CANNON & OVER 8800 LB OPERATIONAL LOAD WITH A MIX OF MISSILE, BOMBS AND ROCKETS

MIG-21 FISHBED

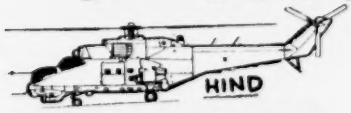
MISSION: CLOSE AIR SUPPORT
SPEED: APPROX 675 MPH AT SEA LEVEL
WEAPONRY: TWIN BARREL 23 MM GUN, BOMBS AND 57 MM ROCKETS

SU-17 FITTER

MISSION: ATTACK
SPEED: APPROX 725 MPH AT SEA LEVEL
WEAPONRY: 30 MM GUN/7000+ LBS - BOMB, ROCKET AND GUIDED MISSILE CAPABILITY

SU-25 FROGFOOT

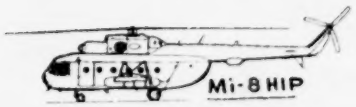
MISSION: CLOSE AIR SUPPORT
SPEED: 540 MPH
WEAPONRY: 30 MM GUN/57 MM TO 330 MM ROCKETS/LASER GUIDED MISSILES/500 Kg INCENDIARY, HE, ANTIPERSONNEL AND CHEMICAL CLUSTER BOMBS



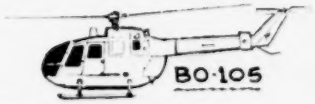
MISSION: ASSAULT/ATTACK
SPEED: 185 MPH
WEAPONRY: 12.7MM MG/ATGM (SWATTER)/
57MM ROCKET/80MM ROCKET/TWIN 23MM GUNS/3,300 LBS OF CHEMICAL AND CONVENTIONAL BOMBS.
LIFT CAPABILITY: 8 MEN (1-SQUAD)
REMARKS: MINE DISPENSER, CAPABLE/MAY BE PART OF HUNTER/KILLER TEAM OPERATIONS.

MISSION: ATTACK
SPEED: 140 MPH
WEAPONRY: TWO 7.6MM MG OR 20 MM GUN/TWO PODS 68MM OR 2.75 IN ROCKETS, 4-6 HOT ATGM.
REMARKS: MAY BE PART OF HUNTER/KILLER TEAM OPERATIONS

ASSAULT



MISSION: ASSAULT/AIRLIFT
SPEED: 155 MPH
WEAPONRY: 12.7MM MG/57MM ROCKET/ATGM CAPABLE
LIFT CAPABILITY: 24 MEN
REMARKS: UPRATED MODEL, MI-17 (HIP H) HAS BEEN OBSERVED; IMPROVED PERFORMANCE/COCKPIT ARMOR WITH ADDITIONAL 23 MM GUN PACKS



MISSION: ATTACK
SPEED: 168 MPH
WEAPONRY: 6 HOT ATGM, 7.62 MM GUNS, 80 MM ROCKETS
REMARKS: MAY BE PART OF HUNTER/KILLER TEAM OPERATIONS.

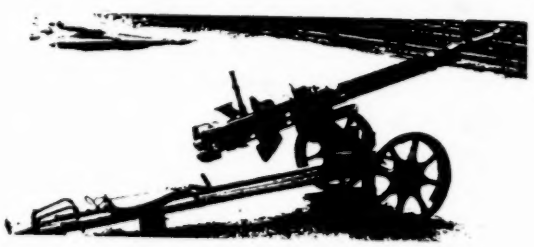
MISSION: ATTACK
SPEED: 95-100 MPH
WEAPONRY: 7.62 MM MG/20MM GUN// OR 2 OR 4 ATGM OR 68 MM ROCKET POD.
REMARKS: MAY BE PART OF HUNTER/KILLER TEAM OPERATIONS.

INDIVIDUAL
WEAPONS
7.62 AK-47
RANGE 300 M
9mm
L2A3
STERLING
7.62 RPD
RANGE 800 M
7.62 SKS
RANGE 400 M
7.62 FN
RANGE 1200 M

CREW SERVED WPNS

SGM MEDIUM MACHINE GUN

AMMO: 7.62 MM
EFFECTIVE RANGE: 1000 M
RATE OF FIRE: 650 RDS/MIN

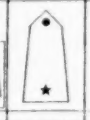
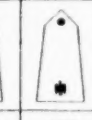


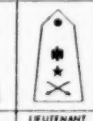
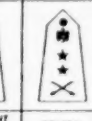
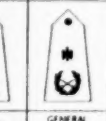
DSHK HEAVY MACHINE GUN

AMMO: 12.7 MM
EFFECTIVE RANGE: 2000 M
RATE OF FIRE: 575 RDS/MIN

IRAQI RANK INSIGNIA & U.S. EQUIVALENTS

COMMISSIONED OFFICERS

IRAQI ARMY, AIR FORCE, AND NAVY	MULAZIM	MULAZIM AWWAL	NAQIB	RAID	MUQADDAM
ARMY AND AIR FORCE					
U. S. EQUIVALENT	2D LIEUTENANT	1ST LIEUTENANT	CAPTAIN	MAJOR	LIEUTENANT COLONEL

AQID	AMID	LIWA	FARIQ	FARIQ AWWAL	MUSHIR
					
COLONEL	BRIGADIER GENERAL	MAJOR GENERAL	LIEUTENANT GENERAL	GENERAL	GENERAL OF THE ARMY

ENLISTED PERSONNEL & WARRANT OFFICERS

	JUNDI	JUNDI AWWAL	NAIB ARIF	ARIF	RAIS URAFA
ARMY AND AIR FORCE					
U. S. ARMY EQUIVALENT	PRIVATE	PRIVATE 1ST CLASS	CORPORAL	SERGEANT	STAFF SERGEANT
U. S. AIR FORCE EQUIVALENT	AIRMAN	AIRMAN 1ST CLASS	SERGEANT	STAFF SERGEANT	TECHNICAL SERGEANT

RAIS URAFA			NAIB ZABET		
(SAME AS STAFF SGT)	N/A	N/A		N/A	N/A
SERGEANT 1ST CLASS	MASTER SERGEANT	SERGEANT MAJOR	WARRANT OFFICER (WO)	CHIEF WARRANT OFFICER (CWO 2)	CHIEF WARRANT OFFICER (CWO 3)
MASTER SERGEANT	SENIOR MASTER SERGEANT	CHIEF MASTER SERGEANT	WARRANT OFFICER (WO)	CHIEF WARRANT OFFICER (CWO 2)	CHIEF WARRANT OFFICER (CWO 3)

HEAT INJURIES

DRINK PLENTY OF WATER

DEPENDING ON THE HEAT, YOU MAY NEED TO DRINK FROM 1/2 TO 2 QUARTS OF WATER PER HOUR-4 GALLONS OR MORE PER DAY IN HOT DRY CLIMATES; THEREFORE, YOU SHOULD-

- DRINK EXTRA WATER BEFORE STARTING ANY MISSION OR HARD WORK.
- DRINK SMALL QUANTITIES FREQUENTLY
- DRINK WATER EVEN IF YOU ARE NOT THIRSTY
- REFILL YOUR CANTEENS AT EVERY OPPORTUNITY

NOTE

IF YOUR URINE IS DARK YELLOW,
YOU ARE NOT DRINKING ENOUGH WATER!

EAT ALL MEALS TO REPLACE SALT

USE EXTRA TABLE SALT ON YOUR FOODS AT MEALS.

TAKE SALT TABLETS ONLY WHEN DIRECTED BY THE MEDICS.

RECOGNIZE THE INCREASED HEAT STRESS RISK IN:

- MOPP
- BODY ARMOR
- ARMORED VEHICLES

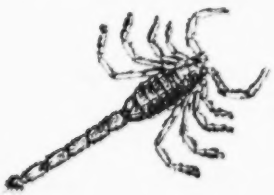
CHEMICAL AGENTS

THE IRAQIS MAY MIX BLISTER AGENT MUSTARD AND NERVE AGENTS TABUN AND SARIN WITH ARTILLERY FIRE.

DELIVERY SYSTEMS ARE:

- **BOMBS**
- **ROCKETS**
- **ARTILLERY SHELLS**
- **AIRCRAFT DELIVERED SPRAYS**

POISONOUS ANIMALS



SPIDERS, SCORPIONS AND SNAKES

THE OVERALL THREAT FROM VENOMOUS ANIMALS IN THE NORTHWESTERN PERSIAN GULF IS LOW. ENCOUNTERS WILL BE LOW DURING DAYLIGHT, INCREASING WITH DARKNESS. NORMAL CLOTHING IS GENERALLY ADEQUATE TO PREVENT MOST BITES. THE FOLLOWING ANIMALS ARE LISTED IN ORDER, THE MOST DANGEROUS AT THE TOP. REMEMBER...

IF IT MOVES, DON'T TOUCH IT!!

CARPET VIPER (SAW-SCALED VIPER)

* .4 TO .9 METERS LONG, SHORT AND STOUT, HEAD IS WIDE, BLUNT SNOUT
* BACK IS TAN, BROWN, BUFF, OLIVE, OR REDDISH WITH WHITE SPOTS AND LONG WHITE LINE ALONG EACH SIDE. BELLY IS WHITE TO PINKISH BROWN WITH GREY SPOTS.
* LIVES: BAREN, ROCKY, SANDY DESERT, DRY BUSH
* TRAITS:
  - HUNTS AT NIGHT
  - VERY ALERT, STRIKES FAST & OFTEN
  - COILS INTO FIGURE "S"
  - MAKES A RASPING SOUND AS WARNING
* BITE: PAIN - SWELLING AT BITE - BLEEDING FROM GUMS, NOSE AND KIDNEYS

EGYPTIAN COBRA

* 1.5 TO 2.5 METERS LONG, MODERATELY STOUT BODY
* BACK IS YELLOW, DARK BROWN OR ALMOST BLACK, HEAD AND NECK ALWAYS DARKER, DARK BARS ACROSS NECK AT HOOD, BELLY IS YELLOW AND BROWN
* LIVES:
  - FLAT LANDS, SCRUB BRUSH
  - IRRIGATED FIELDS
  - ROCKY HILLSIDES
  - NEAR RODENT POPULATIONS
* TRAITS:
  - HOLDS AND CHEWS SAVAGELY
  - MAY RAISE HEAD AND SPREAD HOOD
  - MAY BITE WITHOUT WARNING
* BITE: HIGHLY TOXIC, PAIN AND SWELLING, MAY CAUSE RESPORATORY OR CARDIAC ARREST

HORNED DESERT VIPER

* .5 TO .7 METERS LENGTH, WIDE BODY, SHORT WIDE HEAD, BLUNT SNOUT, SCALE COVERED HORNS ABOVE EYES
* PALE GRAY, OR BLUISH GRAY TO KHAKI WITH BROWNISH GRAY BLOTCHES OR NARROW CROSSBANDS, WHITE BELLY, BLACK TAIL
* LIVES:
  - VERY ARID AREAS
  - BURROWS IN LOOSE SAND
  - HIDES IN RODENT HOLES
* TRAITS:
  - SLUGGISH BY DAY
  - AGGRESSIVE AT NIGHT
* BITE: HIGHLY TOXIC, WEAKNESS AND IMMOBILITY 2 TO 3 HOURS AFTER BITE.

PUFF ADDER

* .9 TO 1.3 METERS AVERAGE LENGTH, LARGE, STOUT, HEAVY BODY
* HEAD IS BROAD AND TRIANGULAR WITH 4 YELLOW STREAKS (TWO FROM EACH EYE TO LIP), BACK IS BROWN OR YELLOW, WITH V SHAPED MARKS ALONG BACKBONE, VERY LONG FANGS, SHORT TAIL
* LIVES:
  - SELDOM FOUND IN VERY WET OR DRY AREAS.
  - NEAR HOUSES, IN OR NEAR BUILDINGS
* TRAITS
  - EASILY EXCITED
  - MAY INFLATE BODY AND HISS
* BITE: CAN INJECT LARGE AMOUNTS OF VENOM - SEVERE PAIN - SWELLING - LOWERED BLOOD PRESSURE, SHOCK

LEVENTINE VIPER

* UP TO 1.6 METERS LONG, VERY LARGE FANGS, TAIL TAPERS ABRUPTLY
* BACK HAS BROWN CIRCLES WITH LIGHT CENTERS, GRAY, GRAY BROWN, OR YELLOWISH WITH GRAY BELLY, PINKISH BROWN TAIL
* LIVES:
  - DRY ROCKY AREAS
  - MOUNTAINS UP TO 2000 METERS ELEVATION
  - BUSHES
* TRAITS:
  - CALM DURING DAY, BUT WILL STRIKE
  - AGGRESSIVE AT NIGHT
* BITE: BLEEDING FRON WOUND, IMMEDIATE BURNING PAIN, SWELLING, DISCOLORATION. WEAKNESS AND SWEATING

SCORPION

* 3 TO 4 INCHES LONG, EIGHT WALKING LEGS, TWO LARGE PINCERS, STINGER IN TIP OF CURVED TAIL
* LIGHT TAN TO RED OR DARK BROWN
* LIVES: - BURROWS UNDER STONES
  - LOOSE BARK ON TREES
  - AROUND HOUSES
* TRAITS - FEEDS ON INSECTS AT NIGHT
  - NOT AGGRESSIVE
  - STINGS WHEN BOTHERED
* BITE: INTENSE LOCAL PAIN, ANXIETY, SWEATING, VOMITING

(SHAKE CLOTHING, CHECK BOOTS BEFORE WEAR)

BLACK WIDOW SPIDER

* 1/2 TO 1 INCH IN SIZE
* BLACK WITH YELLOW-RED STRIPES OR SPOTS
* LIVES; - NEAR HOUSES, OUTHOUSES
  - TRASH DUMPS
* TRAITS: - NOT AGGRESSIVE
* BITE: MAY NOT BE FELT, MAY CAUSE LOCAL PAIN. LATER CAUSES PAIN THROUGHOUT BODY. FEVER, NAUSEA.

COMMON WORDS AND PHRASES
PRONUNCIATION GUIDE
(ARABIC - IRAQI DIALECT)

ENGLISH TERM -- PHONETIC SPELLING -- ("PRONUNCIATION")

COMMANDS/STATEMENTS

COME HERE -- TAÁL -- ("TAH-AHL")

COME OUT -- ÍTLAH -- ("IT-LAH")

GO THERE -- RUH HINÁK -- ("ROO-HEE-NAHK")

HANDS UP -- IRFÁA ÍDAK -- ("EAR-FAH EE-DAHK")

HALT -- QIFF -- ("KIF")

I AM AN AMERICAN SOLDIER -- ÁNA JÚNDI AMRÍKI -
- ("AHNA JOON-DEE AHM-REE-KEE")

LAY DOWN YOUR WEAPONS -- ÍLQI SLÁAHAK -
- ("ILL-KEE SLAH-HAHK")

SIT DOWN -- ÍJLIS -- ("IDG-LIS")

STAND UP -- QIFF -- ("KIF") (SAME AS HALT)

STAY THERE -- QIFF HINÁK -- ("KIF HEE-NAHK")

YOU ARE A PRISONER -- ÍNTA SAJEÉN -- ("IN-TAH SAH-JEAN")

THINGS

AMMUNITION – DHAKHÍYRA – ("ZAA-KÉE-RAH")

ARMORED PERSONNEL CARRIER – MUSHÁT ALÍYYA - - ("MOO-SHÓT AH-LÉE-YAH")

ARTILLERY – MADFAÍYA – ("MAHD-FAH-ÉE-YAH")

CIVILIAN – MÁDANIY – ("MÁH-DAH-NEE")

FOOD – ÁKIL – ("ÉH-KIL")

HELICOPTER – HELICOPTER or TÁIRA AMUDÍYA - - ("TÁH-EE-RAH AH-MOO-DÉE-YAH")

MINEFIELD/MINES – HAQIL ALGHÁM – ("HA-KILL ELL-GHÁHM")

MINE (ONE EACH) – LÁGHAM – ("LÁGH-HAHM")

SOLDIER – JÚNDI – ("JOÓNDEE")

SOLDIERS – JUNÚD – ("JOO-NÚDE")

TANK – DÁBBÁBA – ("DÁH-BÁH-BAH")

WATER – MAYY – ("MAE")

WEAPON – SILÁH – ("SI-LÁH")

WEAPONS – ASLIHÁH – ("AS-LEE-HÁH")

NUMBERS

0 1 2 3 4 5 6 7 8 9 10

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Common ROAD SIGNS

NO STANDING ON ODD DAYS

NO STANDING ON EVEN DAYS

NO PARKING

NO ENTRY

NO STANDING

MAX WIDTH 2 METERS

LOW CLEARANCE BRIDGE

PASSAGE IN BOTH DIRECTIONS

OPEN CROSSING

PO-8952-O-Army Knox Sep 90-3C

ADDITIONS/MODIFICATIONS

PG 14	T-72/T-72M1	SPEED: REDUCE TO 60 KM/H REMARKS: HAS ACTIVE INFRARED SYSTEM
PG17	BMP-1	SPEED: REDUCE TO 65 KM/H WEAPONRY: ALSO HAS SPANDREL OR SPIGOT ATGM REMARKS: DRIVER AND GUNNER HAVE NIGHT VISION (II)
PG17	BMP-2	WEAPONRY: HAS SPIGOT OR SPANDREL ATGM REMARKS: DRIVER AND GUNNER HAVE NIGHT VISION (II)
PG 20	MILAN	PENETRATION: REDUCE TO 800 MM
PG 22	2S1-SP GUN/HOW	AMMO: ADD ILLUM, DP-ICM SUSTAINED RATE OF FIRE: INCREASE TO 5-8 RDS/MIN
PG 22	D-20 GUN/HOW	AMMO: ADD WP, HE-RA DELETE CP, AP-1, HEAT
PG 23	G-5 GUN/HOW	SUSTAINED RATE OF FIRE: CHANGE TO 2-3 RDS/MIN
PG 24	D-30 HOW	SUSTAINED RATE OF FIRE: INCREASE TO 7-8 RDS/MIN
PG 25	M-1937 (ML-20) GUN/HOW	AMMO: ADD CHEMICAL
PG 25	M-1943 D-1 HOW	SUSTAINED RATE OF FIRE: INCREASE TO 4 RDS/MIN
PG 26	MOTAR (82 MM)	RANGE: INCREASE TO 4000 M AMMO: ADD ILLUM
PG 28	ZSU-57-2	RATE OF FIRE: 105-120 RDS/MIN EA GUN OR 210-240 RDS/MIN TOTAL

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How They Fight